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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/525,950	11/10/2005	Errikos Pitsos	741439-21	2609
22204	7590	01/23/2008	EXAMINER	
NIXON PEABODY, LLP			NISSAN, BARAK	
401 9TH STREET, NW				
SUITE 900			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20004-2128			4117	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/525,950	PITSOS, ERRIKOS	
	Examiner	Art Unit	
	Barak Nissan	4117	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 28 February 2005.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-3,20 and 21 is/are rejected.
- 7) Claim(s) 4-19 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>3/28/2007, 8/05/2005</u> . | 6) <input type="checkbox"/> Other: _____. |

DETAILED ACTION

1. This communication is in response to Application No. 10/525,950, filed 2/28/2005, claims 1-21 have been examined.

Arrangement of the Specification

2. As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase “Not Applicable” should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (l) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A “Sequence Listing” is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required “Sequence Listing” is not submitted as an electronic document on compact disc).

The specification should be broken down into sections. Correction is required.

Information Disclosure Statement

3. The information disclosure statement filed on 3/28/2007 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed.

In this case, a copy of the reference listed, namely, the Japanese Office action dated November 14, 2006 for patent application number 2004-53203 has not been received. As such, it has been placed in the application file, but the information referred to therein has not been considered.

Claim Objections

4. Claims 4-19 are objected to under 37 CFR 1.75(c) as being in improper multiple dependent form.

Specifically, in this case, claim 4, a multiple dependent claim, cannot depend on another multiple dependent claim, such as claim 3. Claims 5-19 are dependent on claim 4 (see MPEP § 608.01(n)). Accordingly, the claims 4-19 have not been further treated on the merits.

5. Claim 20 recites the limitation "said public key information storage means" in line. There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.

Double Patenting

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

7. Claims 1-3 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims of (US 7,177,932).

8. Claims 1-3 of instant application are an obvious variation of claims 1-3 of the U.S. patent 7,177,932.

Although the conflicting claims are not identical, they are not patentably distinct from each other because: claim 1 of the application has substantially the same elements/limitations of claim 1 of the patent. The only differences in the patent claims compared to instant application claims are that firstly, the patent claim 1 recites the limitation: “*a public port connected to the public network and having at least one public network address*” whereas instant application, recites “*a public port connected to the public network*”; and secondly, the patent claim 1 recites the limitation: “the control unit uses public key information included in an incoming data message *sent to the public port* and the list of public key identifiers stored in the storage unit and respectively associated internal network addresses of internal devices to determine a destination internal network address of a destination internal device, the control unit directing incoming data to the destination internal device with the determined destination internal network address”, whereas the limitation on instant application recites: “*the control unit is adapted for identifying a destination of the incoming data, which are addressed to a public network address of the gateway*, by determining an internal network address of the internal device based on public key information included in the incoming data and the list of public key identifiers and associated internal network addresses”. As such both limitations, use public key information included in an incoming data message and the list of public key

identifiers stored in the storage unit and respectively associated internal network addresses of internal devices to determine a destination internal network address of a destination internal device, the difference is that in the patent the incoming data message “is sent to the public port” and in instant application the incoming data is “addressed to a public network address of the gateway” which is substantially the same.

Furthermore, claims 2-3 of instant application are the same as claims 2-3 of the patent.

Double Patenting

9. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

10. Claim 21 is rejected under 35 U.S.C. 101 as claiming the same invention as that of claim 15 of prior U.S. Patent No. 7,177, 932. This is a double patenting rejection.

In this case, all the limitations in claim 21 of instant application are extant in claim 15 of the patent.

Claim Rejections - 35 USC § 103

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

12. Claims 1-3, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nessett et al. (US 6,055,236) in view of Cathey et al. (US 7,075,926) in further view of Klemba et al. (US 7,305,459).

13. Regarding claim 1, Nessett discloses a network system (10) as illustrated on Figure 1 comprising a gateway (e.g. router 26) for connecting a public network (external network) to an internal network (LAN) (see abstract), the gateway comprising:

a control unit (26) for controlling (e.g. routing) transmission of incoming and/or outgoing data between a remote device in the public network (e.g. Internet 30) and at least one internal network device (e.g. network devices 14-24) on the internal network (e.g. LAN 12) (column 7, lines 25-33 and column 17, lines 1-11);

a public port (e.g. well known port 80) connected to the public network (col 17

lines 38-42); and

an internal port connected to the internal network (12) for connecting thereto (column 8, lines 55-column 9, line 7);

a storage unit (LDAP) storing a list of public key identifiers (e.g. digital certificates) and respectively associated internal network addresses of internal devices (col 35 lines 12-32);

although Nessett further teaches where data packet from the internal devices is addressed (e.g. destine) to the external network are address to (e.g. address 48) the public network address of the gateway (router 26) (see column 15, lines 63-column 16, line 2 and table 3);

Nessett does not explicitly disclose where the control unit identifies a destination of the incoming data, by determining an internal network address of the internal device based on public key information included in the incoming data and the list of public key identifiers and associated internal network addresses.

Cathey teaches the control unit (controller 100) is adapted (e.g. with engine 408) for determining an internal network address of the internal device based on information (so called public key) included in the incoming data (col 12 lines 21-24), and the list of identifiers (so called public key) (col 12, lines 21-24);

Nesset nor Cathey explicitly disclose where the incoming data which are addressed to a public network address of the gateway and associated internal network addresses.

Klemba teaches for identifying (i.e. entry service point) a destination of the incoming data are addressed to a public network address of the gateway by determining an internal network address of the internal device (col 6 lines 54-62, col 7 lines 2-7) and associated internal network addresses (col 7 line 42).

It would have been obvious to one of ordinary skilled in the art at the time the invention was made given the teachings of Nessett and Cathey with further teachings of Klemba before them, to modify Nessett teachings to include where the control unit determines the destination of the data of the internal device based on the public keys used to determine the address for the internal device mentioned in Cathey and Klemba. One would be motivated to combine these teachings because the public key information stored in tables is used to match the address for the internal device in order for the incoming packets to be sent to the destination device. It is obvious to one in the art that the authentication purposes to this matter is to perform the security related operation using the list of public keys with the communication of the gateway or control unit to determine the destination IP address of the device to see if the key and address matches to continue processing the data being sent.

14. Regarding claim 2, wherein the public key information in the incoming data includes the public key identifier (Cathey col 12, lines 21-24).

15. Regarding claim 3, an encryption/decryption unit for decrypting the incoming data (Klemba, i.e. terminal service point decrypts packets [step 659], Fig B) and/or encrypting the outgoing data (Nessett, e.g. transport or tunnel, col 23 lines 52-64).

16. Regarding claim 21, this claim comprises a method for transmitting the data between the remote device (e.g. computer) and the gateway of the internal device (i.e. router routes the data packets to/from computers, Nesset, col 7 lines 26-30); forwarding the incoming data from the gateway to the internal device (Nesset col 32, lines 60-62); storing a list of public key identifiers (so called public key) (Cathey col 12, lines 21-24) and associated internal network addresses (Klemba col 7 line 42); and where incoming data is addressed to the gateway (Nessett: column 15, lines 63-column 16, line 2), identifying a destination of the incoming data, by determining an internal network address of the internal device based on public key information included in the incoming data (Cathey col 12, lines 21-24) and the stored list of public identifiers and associated internal network addresses.

Claim Rejections - 35 USC § 102

17. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless —

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the

United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

18. Claim 20 is rejected under 35 U.S.C. 102(e) as being anticipated by Song et al. (2003/0065947).

19. Regarding claim 20, Song teaches a public key server (16 of Fig. 1) comprising:
storage means (e.g. database within registry server [24]) for storing information in
regard to a public key [see paragraphs 0054, 0143];

public key request interface for receiving a request for public key information
stored in said public key information storage means (i.e. said storage means) (step 578 of
Fig. 20 and par 0054); and

transmitting the requested information to a requesting device (14) in response
thereto (step 122 of Fig. 6);

where said storage means stores a public network address of a gateway as a
destination address of data to be transmitted to a recipient (i.e. linking address of the
registry server transmits data to personal device [14], see paragraph 0077), for gateways
identifying the recipient by means of a public key identifier included in the transmitted
data (registry servers can identify the personal devices by the public keys being stored in
the database, 0054), and forwarding the data to the recipient (Figure 6); and

said public key request interface (interface interpreted as another registry server [164]) is adapted to transmit said stored public network gateway address to the requesting device (see paragraph 0136).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barak Nissan whose telephone number is (571) 270-3632. The examiner can normally be reached on Mon-Thurs 7:30 am-5:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Beatriz Prieto can be reached on (571)-272-3902. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

B.N.
Patent Examiner

/Prieto, Beatriz/
Supervisory Patent Examiner, Art Unit 4117